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# **WATER SUPPLY OUTLOOK FOR UTAH**

Prepared by

**U. S. DEPARTMENT of AGRICULTURE ★ SOIL CONSERVATION SERVICE**

Collaborating with

**UTAH STATE DEPARTMENT OF NATURAL RESOURCES -- DIVISION OF WATER RIGHTS**

In cooperation with U.S. Forest Service, Bureau of Reclamation,  
Utah Fish and Game Dept., Utah State University, U.S. National  
Park Service, U.S. Geological Survey, and other Federal, State,  
and private organizations.

AS OF  
**FEB. 1, 1973**

## TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

## PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, Western Regional Technical Service Center, Room 209, 511 N. W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	204 E. 5th. Ave., Room 217, Anchorage, Alaska 99501
Arizona	6029 Federal Building, Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 970, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1218 S. W. Washington St., Portland, Oregon 97205
Utah	4012 Federal Bldg., 125 South State St., Salt Lake City, Utah 84111
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82601

## PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 --- and for British Columbia by the Department of Lands, Forests and Water Resources, Water Resources Service, Parliament Building, Victoria, British Columbia



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# ***WATER SUPPLY OUTLOOK FOR UTAH***

and  
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

*Issued by*

KENNETH E. GRANT  
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UTAH STATE DEPT. OF NATURAL RESOURCES

|||||

*Report prepared by*

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SOIL CONSERVATION SERVICE  
SNOW SURVEY SECTION  
FEDERAL BLDG., ROOM 4012  
SALT LAKE CITY, UTAH 84111



# PROSPECTIVE WATER SUPPLIES

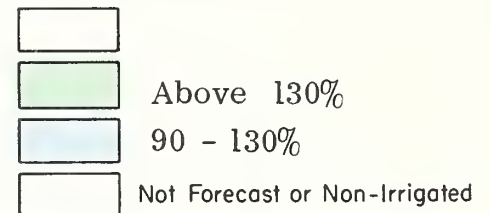
Based on Snow Surveys Made on  
UTAH and BEAR RIVER WATERSHEDS

February 1, 1973

Approximate Date



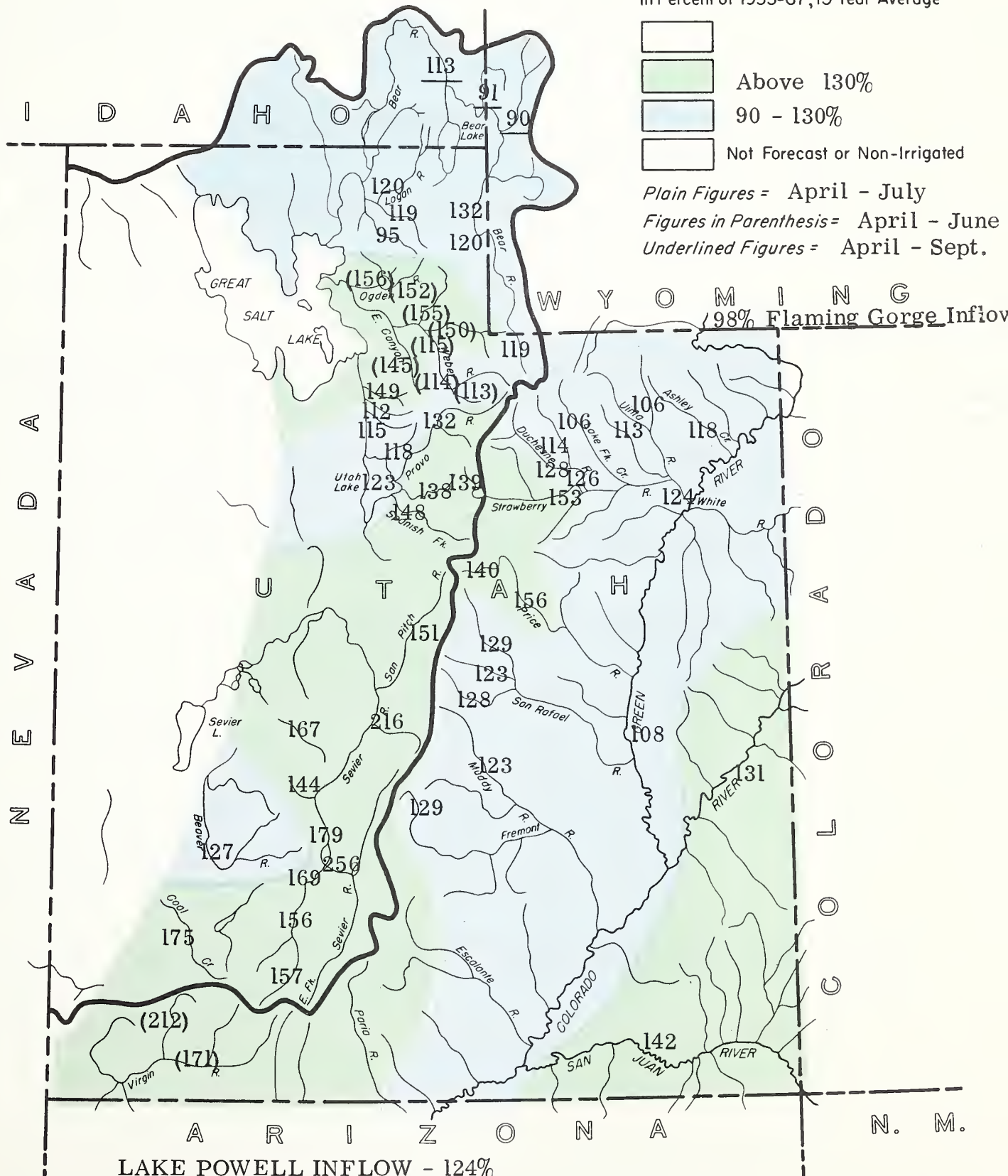
FORECAST STREAM FLOW  
in Percent of 1953-67, 15 Year Average



Plain Figures = April - July

Figures in Parenthesis = April - June

Underlined Figures = April - Sept.



LAKE POWELL INFLOW - 124%

NAVAJO RES. INFLOW - 137%





# WATER SUPPLY OUTLOOK

as of

FEBRUARY 1, 1973

\* \* \* \* \*

\* The Utah Water Supply Outlook is "near average" to "above \*  
\* average". Snow cover ranges from slightly "below average" \*  
\* in northern Utah to "double the average" in southern Utah. \*  
\* Reservoir Storage is 139% of average and streamflow fore- \*  
\* casts range from 95% of average to better than double av- \*  
\* erage for the snow melt season. \*

\* \* \* \* \*

Snow Cover ranges from less than average on the Logan watershed to more than twice average on the Virgin and Sevier Rivers. Ogden and Weber Rivers have about 130 and 120% of the February 1 average snow water contents - about 30% less than last year at this time.

The Provo watershed has 135% of average and Jordan River tributaries above Salt Lake are 116% of average.

Uintah basin snow cover ranges from 98 to 127% of average. Extremely cold temperatures this winter have resulted in much drier and more crystalline snow this season in the Uintahs. Price River snow water is 137% of average and the San Rafael streams average 130% of the February 1 average.

Sevier River snow cover is about 200% of the February 1 average and 40% more than last year. Beaver River has 153% of average and 20% more than a year ago at this time. Virgin River and Coal Creek are 179% of average and about 20% more than a year ago. Escalante River snow is almost double the average for February 1.

Valley and lower elevation snow is much heavier this year and has remained on the ground over much of the state for longer than usual.

Reservoir Storage is 139% of the February 1 average for 14 major irrigation reservoirs. The three principal reservoirs on the Sevier River contain 175,420 acre feet or 153% of average.

The elevation of the Great Salt Lake was 4199.05 feet above mean sea level or 0.70 foot higher than a year ago and 7.70 feet above the all time low of October 1963. The lake rose 0.3 foot during January according to the U.S. Geological Survey.

Streamflow Forecasts for the spring snow melt season vary from 95% of average on the Little Bear to better than double average on the East Fork of Sevier and Santa Clara Rivers in southern Utah. (See individual basins for specific forecasts).

## WATER SUPPLY OUTLOOK (continued)

All forecasts are made as of February 1, assuming average precipitation and temperature for the February through July period. If less than average occurs during this period, the flows will be less than forecasts indicate.

Forecasts will be changed each month as changing conditions indicate they should be. Daily readings of snow water equivalent, precipitation and temperature are now made by radio on several locations in the state. A more frequent update than monthly can be made on some forecasts. If you have need of current information, inquire at your local Soil Conservation Service office.

**RESERVOIR STORAGE (Thousand Acre Feet)** END OF MONTH

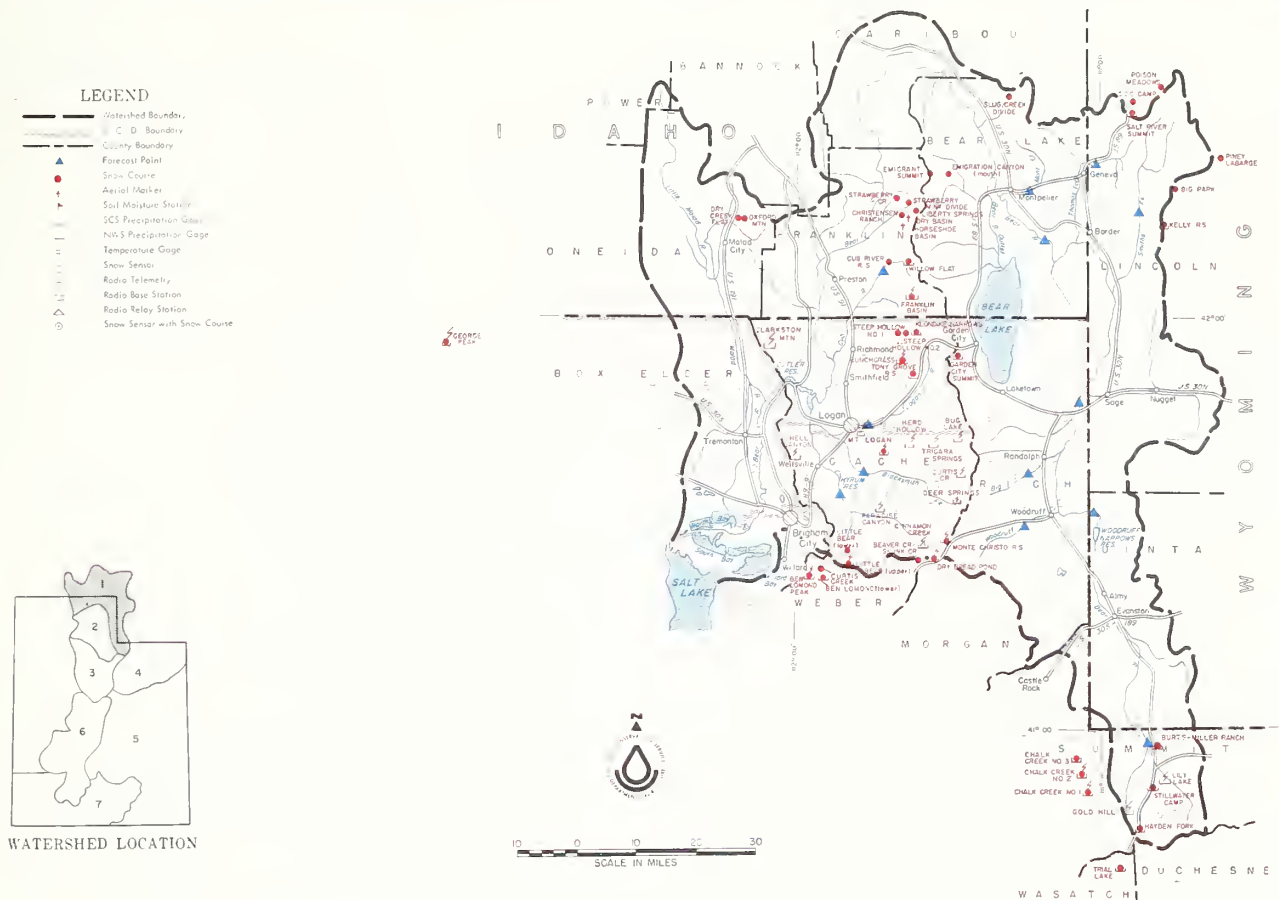
Basin or Stream	RESERVOIR	Usable Capacity	Usable Storage		
			This Year	Last Year	Average†
	<u>GREAT BASIN</u>				
<u>Bear River</u>	Bear Lake	1421.0	1115.4	1105.0	854.0
	Woodruff Narrows	26.5	23.1	26.5	- -
<u>Beaver River</u>	Minersville(Rky Fd)	23.3	8.8	14.3 <sup>b</sup>	8.9
<u>Little Bear</u>	Hyrum	15.3	10.6	10.7	10.2
	Porcupine	11.3	3.3	3.3 <sup>b</sup>	- -
<u>Ogden</u>	Causey	7.1	2.2	1.5	- -
	Pineview	110.1	38.8	68.2	26.1
<u>Provo</u>	Deer Creek	149.7	103.7	107.6	88.3
<u>Sevier River</u>	Gunnison	18.2	15.0 <sup>e</sup>	14.8	- -
	Otter Creek	52.5	24.9	29.0	19.0
	Piute	71.8	38.6	53.0	29.6
	Sevier Bridge	236.0	111.9	156.7	66.2
<u>Spanish Fork</u>	Strawberry	270.0	178.4	195.9	117.6
<u>Utah Lake</u>	Utah Lake	883.9	741.6	806.8	518.9
<u>Weber</u>	East Canyon	48.1	40.0	38.3	- -
	Echo	73.9	62.7	57.9	31.7
	Lost Creek	20.0	14.9	15.1	- -
	Rockport	60.9	24.5	31.2	25.2 <sup>b</sup>
	Willard Bay	193.3	156.3	173.0	- -
	<u>COLORADO RIVER DRAINAGE</u>				
<u>Ashley Creek</u>	Steinaker	33.3	25.8	22.7	15.6 <sup>b</sup>
<u>Colorado</u>	Blue Mesa	829.5	333.5	371.7	- -
	Lake Powell	25002.0	12253.0	12943.0	5161.7 <sup>b</sup>
<u>Green</u>	Flaming Gorge	3749.0	2962.0	2632.0	1299.0 <sup>b</sup>
<u>Lake Fork</u>	Moon Lake	35.8	16.2	16.0	14.2
<u>Price River</u>	Scofield	65.8	22.3	40.5	20.4
<u>San Rafael</u>	Huntington North	3.9	3.0	- -	- -
	Joe's Valley	54.6	35.4	38.5	- -
	Mill Site	16.7	3.7	- -	- -
<u>San Juan</u>	Navajo	1696.4	945.8	928.9	284.0 <sup>b</sup>
<u>Strawberry</u>	Starvation	165.3	130.0	135.1	- -
<u>Uintah</u>	Bottle Hollow	11.3	11.0	8.7	- -
e - Partly estimated					
b - Average for all past record - less than 15 years					



# WATER SUPPLY OUTLOOK

## BEAR RIVER BASIN in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE  
UTAH STATE DEPARTMENT OF NATURAL RESOURCES-DIVISION OF WATER RIGHTS



FEBRUARY 1, 1973

### THE WATER SUPPLY OUTLOOK IS NEAR AVERAGE

SNOW COVER is near average on Bear River Basin. Individual snow water contents range from 70% of average on the Logan to 218% on the Malad River.

PRECIPITATION of mountain stations ranged from 60 to 125% of the January average and now totals 70 to 150% for the October-January period.

WATERSHED SOIL MOISTURE is near average to above average.

RESERVOIR STORAGE is above average.

STREAMFLOW FORECASTS range from 5 to 10% below average on Thomas, Smith's Fork and Little Bear to 20 to 30% above average on the upper Bear for the April-July period.



FEBRUARY 1, 1973

# STREAMFLOW FORECASTS

STREAMFLOW FORECASTS	THIS YEAR			PAST RECORD	
BASIN STREAM and/or FORECAST POINT	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average †
<u>BEAR RIVER SYSTEM</u>					
Bear at Harer, Idaho (1)	255	113	Apr-Sept		226
Bear nr Randolph	97	132	Apr-July		73
Bear nr Ut-Wyo. State Line	126	119	Apr-July		106
Bear nr Woodruff	125	120	Apr-July		104
Big Crk nr Randolph, Utah	6.0	125	Apr-July		4.8
Blacksmith Fork nr Hyrum	50	119	Apr-July		42
Little Bear nr Paradise	40	95	Apr-June		42
Logan nr Logan (1)	119	120	Apr-July		99
Smith's Fork nr Border, Wyoming	97	90	Apr-Sept		108
Thomas Fork nr Ut-Wyo State Line	28	91	Apr-Sept		31
Woodruff Crk nr Woodruff, Utah	16.6	123	Apr-July		13.5

WSFB-X2-L

## RESERVOIR STORAGE (Thousand Acre Feet) END OF MONTH

Basin or Stream	RESERVOIR	Usable Capacity	Usable Storage		
			This Year	Last Year	Average †
<u>Bear River</u>	Bear Lake	1421.0	1115.4	1105.0	854.0
	Woodruff Narrows	26.5	23.1	26.5	- -
<u>Little Bear</u>	Hyrum	15.3	10.6	10.7	10.2
	Porcupine	11.3	3.3	3.3b	- -
(1) - Observed flow corrected for change in storage and diversions					
b - Average of all past record - less than 15 years					

BEAR RIVER BASIN

## SNOW

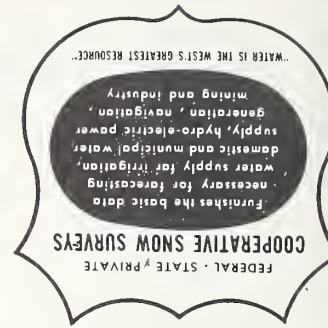
DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average †
NAME	Elevation					
<b>UPPER BEAR RIVER</b> <u>(Above Harer, Idaho)</u>						
Big Park	8700	1/26	39	10.3	19.4	12.4*
CCC Camp	7500	1/30	29	7.7	12.1	7.5
Chalk Creek #1	9100	1/29	55	15.6	19.6	- -
Chalk Creek #2 x	7900	1/29	44	10.7	13.4	8.4b
Chalk Creek #3 x	7500	1/29	30	6.9	8.2	4.6b
Kelly Ranger Station	8200	1/26	39	10.7	18.7	10.6*
Monte Cristo R.S.	8960	1/30	46	15.1	25.6	16.0b
Piney-LaBarge #2	8820	1/27	46	13.1	22.9	14.6b
Salt River Summit x	7900	1/30	35	8.1	16.0	9.7
Smith & Morehouse x	7600	1/30	31	8.2	12.5	7.4b
Trial Lake x	9800	1/31	55	16.0	24.7	14.8b
<b>LOWER BEAR RIVER</b> <u>(Below Harer, Idaho)</u>						
Beaver Crk-Skunk Crk. x	7150	1/30	34	9.9	14.3	7.2
Christensen Ranch	5600	1/29	29	7.5	7.9	- -
Cub River R.S.	5400	1/30	26	6.6	6.8	- -
Dry Basin A	7900	1/29	48	14.1	24.2	- -
Dry Bread Pond x	8230	1/30	40	12.7	17.8	10.3
Dry Creek Flat	6350	1/29	32	7.8	9.9	4.5*
Emigrant Summit	7350	1/29	47	13.8	24.5	14.2*
Emigration Canyon	6500	1/29	25	5.8	12.2	6.4*
Garden City Summit	7600	1/26	33	8.4	19.8	10.8
Horseshoe Basin A	8000	1/29	49	14.4	21.0	- -
Klondike Narrows	7400	1/26	37	9.6	20.0	12.3b
Liberty Springs A	8420	1/31	63	20.3	32.4	- -
Monte Cristo R. S. x	8960	1/30	46	15.1	25.6	16.0b
Oxford Mountain	6800	1/29	29	8.0	11.6	5.6*
Steep Hollow #1	8500	1/26	55	15.8	30.6	22.6b
Steep Hollow #2	7700	1/26	45	12.2	24.9	17.0b
Strawberry Creek	5800	1/29	34	9.1	10.0	6.9*
Strawberry Mink Divide	6800	1/29	48	14.6	21.6	13.0*
Tony Grove R. S.	6250	1/26	24	5.8	15.5	7.1
Willow Flat	6100	1/30	37	10.4	15.6	9.4*
Slug Creek Divide	7225	1/27	40	11.0	- -	- -
x - Adjacent drainage b - Average of all past record - less than 15 years * - Partly estimated A - Aerial markers						

"The Conservation of Water begins with the Snow Survey"

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## PRECIPITATION (Inches)

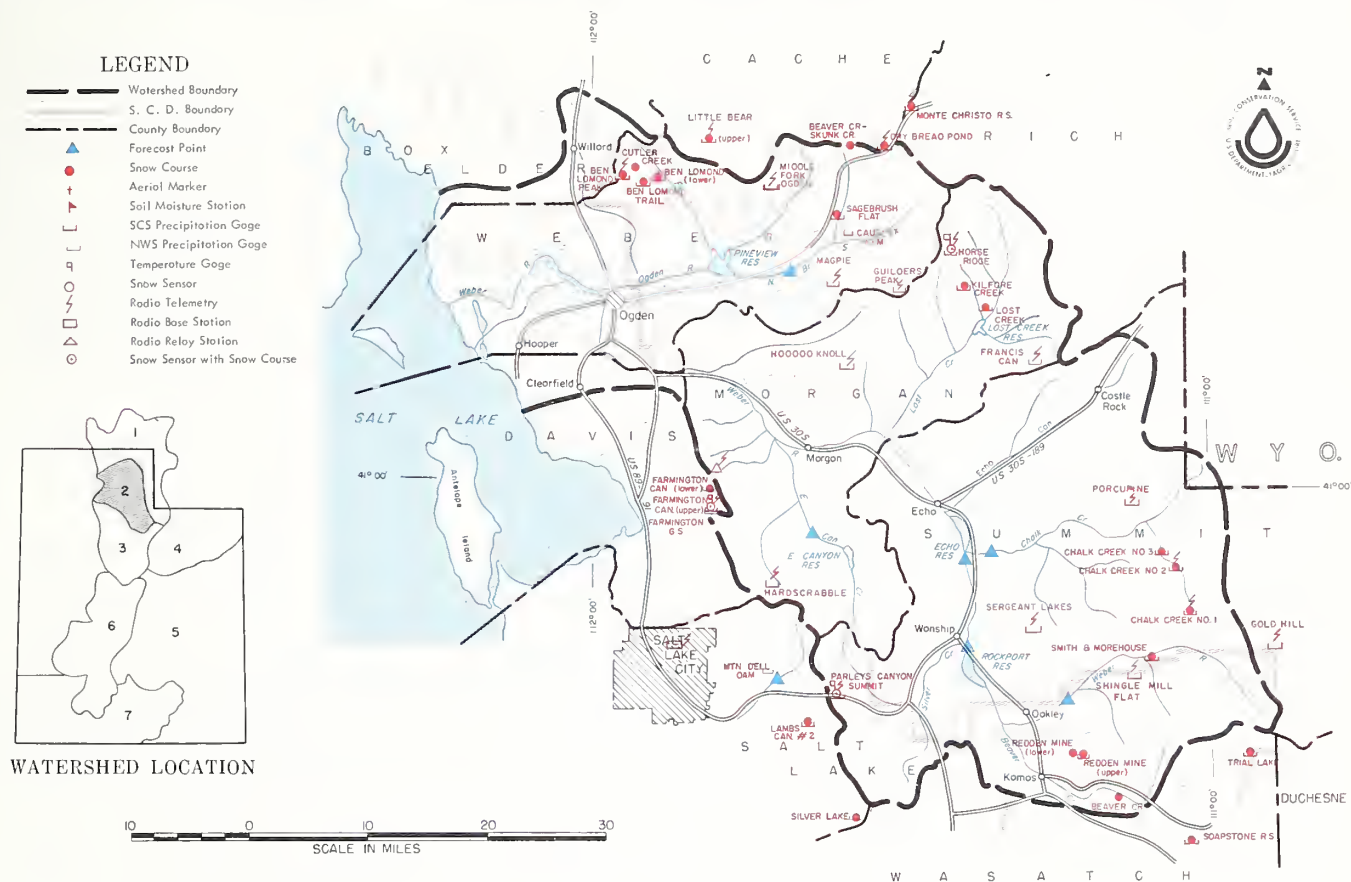
DRAINAGE BASIN and PRECIPITATION GAGE LOCATION	ELEVATION	CURRENT INFORMATION			FROM APPROX. OCT. 1 TO DATE		
		Date of Reading	Month's Precipitation	Average <sup>†</sup>	This Year	Average <sup>†</sup>	Percent of Average
BEAR RIVER							
Bug Lake (3)	7950	1/31	3.37	- -	12.55	- -	- -
Deer Springs (3)	8450	1/31	3.21	- -	15.54	- -	- -
Garden City Summit	7600	1/26	1.86	3.22b	9.21	11.52*	80
George Peak (3)	8800	1/31	2.83	- -	14.04	- -	- -
Herd Hollow (3)	7350	1/31	2.60	- -	10.78	- -	- -
Klondike Narrows (3)	7400	1/31	6.58	5.24*	20.85	14.15*	147
Lily Lake (3)	9300	1/31	2.83	- -	11.83	- -	- -
Monte Cristo #2	8960	1/30	3.92	4.94b	14.80	14.74b	100
Sagebrush Flat x	6300	1/30	2.64	2.48b	10.70	8.28b	129
Salt River Summit	7900	1/30	2.40	3.51b	10.55	9.47*	111
Tony Grove R. S. (3)	6250	1/31	1.81	2.40b	9.83	13.70b	72
Tony Grove Lake (3)	8400	1/31	3.76	- -	18.14	- -	- -
Trial Lake x	9800	1/31	3.07	4.47b	18.91	12.89*	147
Trigara Springs (3)	7200	1/31	2.85	- -	13.45	- -	- -
Willow Flat	6100	1/30	3.56	4.72	13.81	12.80	108
Gold Hill (3)	10000	1/31	3.45	- -	16.26	- -	- -
Cinnamon Crk. (3)	7300	1/31	2.56	- -	11.18	- -	- -
Franklin Basin (3)	8000	1/31	3.72	- -	16.07	- -	- -
Curtis Creek (3)	8450	1/31	3.21	- -	14.65	- -	- -

- (3) - Data obtained by radio - USU-SCS cooperative sites  
 x - Adjacent Drainage  
 b - Average of all past record - less than 15 years  
 \* - Partly estimated

# WATER SUPPLY OUTLOOK

## WEBER-OGDEN WATERSHEDS in UTAH

**UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE  
UTAH STATE DEPARTMENT OF NATURAL RESOURCES-DIVISION OF WATER RIGHTS**



FEBRUARY 1, 1973

THE WATER SUPPLY OUTLOOK IS ABOVE AVERAGE

SNOW COVER is 129% of the February 1 average on the Ogden and 120% of average on the Weber River. Both basins average about 30% less water content than last year. Low elevation and valley snow is much heavier than usual.

PRECIPITATION during January varied from 70 to 150% of average at mountain stations. The Oct-Jan. total is still average to 45% above average.

WATERSHED SOILS are well primed.

RESERVOIR STORAGE in Pineview and Echo is above average although most other reservoirs in these basins have less storage than last February 1.

STREAMFLOW FORECASTS for the April-June period are above average and range from 113% (Weber-Oakley) to 156% (Pineview Inflow). These forecasts assume average precipitation and temperature for the remainder of the season.



WEBER-OGDEN WATERSHEDS - FEBRUARY 1, 1973

**STREAMFLOW FORECASTS**

STREAMFLOW FORECASTS	THIS YEAR			PAST RECORD	
BASIN STREAM and/or FORECAST POINT	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average †
<u>WEBER-OGDEN RIVERS</u>					
Chalk Crk at Coalville	39	150	Apr-June		26
East Canyon Crk nr Morgan (1)	25	145	Apr-June	31	17.2
Hardscrabble Crk nr Porterville	20	139	Apr-June		13.5
Lost Crk nr Croydon, Utah	18	155	Apr-June	33	11.6
Pineview Reservoir Inflow (2)	140	156	Apr-June	136	90
South Fork Ogden nr Huntsville	70	152	Apr-June		46
Rockport Reservoir Inflow (1)	125	114	Apr-June		110
Weber nr Coalville (1)	115	115	Apr-June		100
Weber nr Oakley	105	113	Apr-June	115	93

**RESERVOIR STORAGE (Thousand Acre Feet) END OF MONTH**

Basin or Stream	RESERVOIR	Usable Capacity	Usable Storage		
			This Year	Last Year	Average †
<u>Ogden</u>	Causey	7.1	2.2	1.5	- -
	Pineview	110.1	38.8	68.2	26.1
<u>Weber</u>	East Canyon	48.1	40.0	38.3	- -
	Echo	73.9	62.7	57.9	31.7
	Lost Creek	20.0	14.9	15.1	- -
	Rockport	60.9	24.5	31.2	25.2b
	Willard Bay	193.3	156.3	173.0	- -
(1) - Observed flow corrected for change in storage and diversions. (2) - Inflow record as computed by U. S. Bureau of Reclamation. b - Average of all past record - less than 15 years.					



## WEBER-OGDEN WATERSHEDS

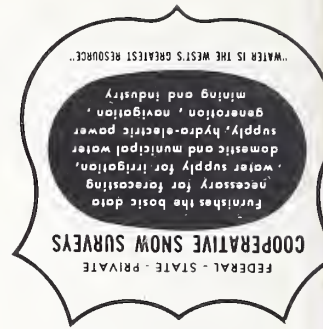
## SNOW

SNOW		THIS YEAR			PAST RECORD	
DRAINAGE BASIN and/or SNOW COURSE		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average †
<u>OGDEN RIVER</u>						
Beaver Crk.-Skunk Crk.	7150	1/30	34	9.9	14.3	7.2
Ben Lomond (lower)	6000	1/29	43	12.0	17.1	8.7b
Ben Lomond Peak	8000	1/29	81	26.5	37.1	20.1b
Ben Lomond Trail	6000	1/29	49	14.7	20.8	9.1b
Cutler Creek	6780	1/29	72	21.8	29.8	15.6b
Dry Bread Pond	8230	1/30	40	12.7	17.8	10.3
Monte Cristo R. S.	8960	1/30	46	15.1	25.6	16.0b
Sagebrush Flat	6300	1/30	18	4.6	7.7	3.6
<u>WEBER RIVER</u>						
Beaver Creek R. S.	7500	1/31	26	6.2	8.0	5.2b
Chalk Creek #1	9100	1.29	55	15.6	19.6	- -
Chalk Creek #2	7900	1/29	44	10.7	13.4	8.4b
Chalk Creek #3	7500	1.29	30	6.9	8.2	4.6b
Farmington Canyon (1) x	6950	1/29	56	17.2	21.8	12.0b
Farmington Canyon (u) x	8000	1.29	62	20.2	33.4	15.0b
Horse Ridge	8260	1/31	41	12.0	- -	- -
Kilfore Creek	7300	1/31	35	8.8	- -	- -
Lamb's Canyon x	6600	1/30	38	9.7	16.3	8.6
Parley's Canyon Smt.	7500	1/30	44	12.3	17.6	10.5
Silver Lake (Brighton) x	8725	1/31	48	16.1	22.8	14.7
Smith & Morehouse	7600	1/30	31	8.2	12.5	7.4b
Soapstone R. S. x	7800	1/31	31	7.5	11.9	7.7b
Trial Lake x	9800	1/31	55	16.0	24.7	14.8b
Lamb's Canyon #2 x	7400	1/30	39	10.7	15.0	- -
Park City Smt.	9300	2/5	66	19.8*	30.0**	- -
x - Adjacent drainage b - Average of all past record - less than 15 years ** - Snow pillow reading cooperatively by Park City Resort * - Partly estimated						

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SOIL CONSERVATION SERVICE  
Federal Bldg. - Room 4012  
Salt Lake City, Utah 84111  
OFFICIAL BUSINESS  
PENALTY FOR PRIVATE USE, \$300

PRECIPITATION (Inches)

DRAINAGE BASIN and PRECIPITATION GAGE LOCATION	ELEVATION	CURRENT INFORMATION			FROM APPROX. OCT. 1 TO DATE		
		Date of Reading	Month's Precipitation	Average †	This Year	Average †	Percent of Average
OGDEN RIVER							
Ben Lomond Peak a	8000	1/31	12.03	- -	32.19		
Ben Lomond (lower)	6000	1/29	6.70	4.39b	18.05	15.46*	117
Ben Lomond Trail	6000	1/29	6.81	4.41b	21.91	17.07*	128
Causey Dam	5500	1/30	1.95	1.92b	9.69	- -	- -
Dry Bread Pond a	8230	1/30	3.65	4.47*	15.46	11.75*	132
Magpie Flat a	7600	1/31	3.10	- -	14.49	- -	- -
Middle Fork Ogden a	8420	1/31	3.25	- -	18.71	- -	- -
Monte Cristo #2 x	8960	1/30	3.92	4.94b	14.80	14.74b	100
Sagebrush Flat	6300	1/30	2.64	2.48b	10.70	8.28b	129
WEBER RIVER							
Chalk Creek #1 a	9100	- -	- -	- -	19.37	- -	- -
Chalk Creek #2 a	7900	- -	- -	3.02b	- -	8.80*	- -
Chalk Creek #3	7500	1/29	1.68	1.82b	11.51	8.37b	138
Farmington Guard Sta.	7500	1/29	6.50	4.69	22.08	17.04	130
Farmington Rice	7000	1/29	6.15	4.38	21.87	15.35	142
Francis Canyon a	7360	1/31	2.82	- -	11.22	- -	- -
Guilders Peak a	8000	1/31	3.84	- -	14.77	- -	- -
Hardscrabble a	6500	1/31	5.74	- -	19.30	- -	- -
Hoodoo Knoll a	8350	1/31	4.82	- -	16.75	- -	- -
Horse Ridge	8260	1/31	2.52	- -	15.17	- -	- -
Lost Creek	6125	1/31	1.75	- -	9.39	- -	- -
Parley's Canyon Smt.	7500	1/30	2.96	3.94*	16.23	11.64*	139
Porcupine	8100	1/31	3.26	- -	13.64	- -	- -
Sargent Lake a	8400	1/31	3.87	- -	16.41	- -	- -
Silver Lake (Brighton) x	8725	1/31	2.40	5.09	21.12	16.56	128
Smith & Morehouse	7600	1/30	2.32	3.19b	14.22	9.79	145
Trial Lake x	9800	1/31	3.07	4.47b	18.91	12.89*	147
X- Adjacent drainage							
b- Average of all past record - less than 15 years							
*- Partly estimated							
a- Data obtained by radio-USU-SCS cooperative sites							

X- Adjacent drainage

b- Average of all past record - less than 15 years

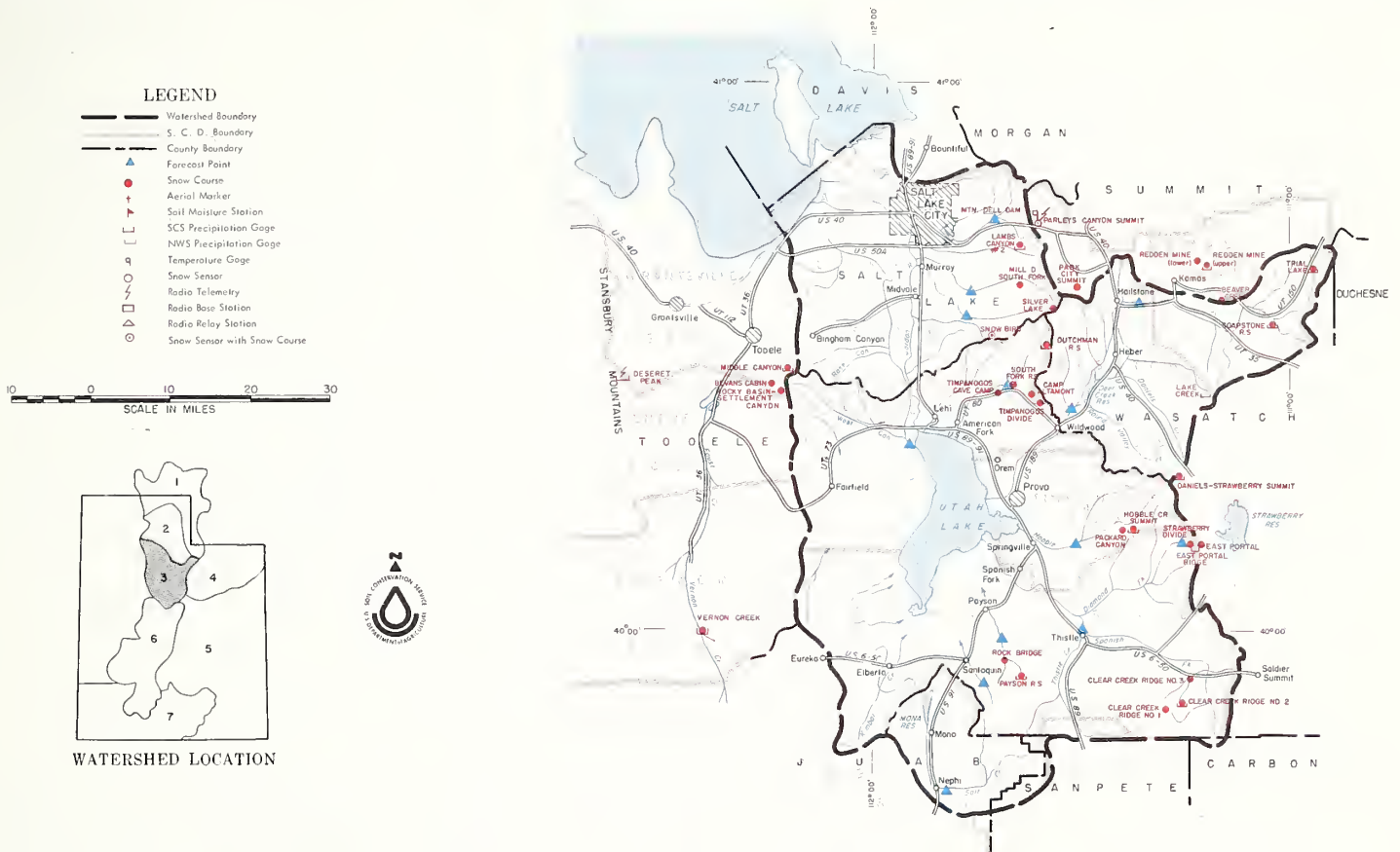
\*- Partly estimated

a- Data obtained by radio-USU-SCS cooperative sites

# WATER SUPPLY OUTLOOK

## UTAH LAKE, JORDAN RIVER and TOOELE VALLEY WATERSHEDS in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE  
UTAH STATE DEPARTMENT OF NATURAL RESOURCES-DIVISION OF WATER RIGHTS



FEBRUARY 1, 1973

THE WATER SUPPLY OUTLOOK IS ABOVE AVERAGE

SNOW COVER is 135% of the February 1 average on Utah Lake watersheds and 6% less than a year ago. Lower Jordan River watersheds are 116% of average and about 32% less than last year. Low elevation and valley snow is much heavier than usual this year.

PRECIPITATION during January ranged from 47% of average at Brighton to 140% at Daniels-Strawberry Summit. The October-January totals still range from 114% to 189% of average.

RESERVOIR STORAGE is above average but less than last year.

STREAMFLOW FORECASTS for the April-July period range from 123 to 148% on Utah Lake drainage. Salt Lake front streams range from 111 to 149% of average. All forecasts assume average weather conditions for the remainder of the season.

FEBRUARY 1, 1973

# STREAMFLOW FORECASTS

STREAMFLOW FORECASTS	THIS YEAR			PAST RECORD	
BASIN STREAM and/or FORECAST POINT	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average †
<u>PROVO RIVER &amp; UTAH LAKE</u>					
American Fork nr American Fork	31	118	Apr-July		26
Hobble Crk nr Springville	18	138	Apr-July		13.0
Provo nr Hailstone (1)	115	132	Apr-July		87
Provo below Deer Crk Dam (1)	125	130	Apr-July		96
Spanish Fork at Thistle	40	148	Apr-July	12.6	27
Strawberry Reservoir Inflow (1)	57	139	Apr-July	38	41
Utah Lake Inflow	241	123	Apr-July	204	195
<u>JORDAN RIVER &amp; SALT LAKE</u>					
Big Cottonwood nr SLC	38	112	Apr-July	40	34
Farmington Crk nr Farmington	7.6	111	Apr-July		6.8
Little Cottonwood Crk nr SLC	38	115	Apr-July	35	33
Parley's Crk nr SLC	14.0	149	Apr-July	19	9.4

## RESERVOIR STORAGE (Thousand Acre Feet) END OF MONTH

Basin or Stream	RESERVOIR	Usable Capacity	Usable Storage		
			This Year	Last Year	Average †
<u>Provo</u>	Deer Creek	149.7	103.7	107.6	88.3
<u>Spanish Fork</u>	Strawberry	270.0	178.4	195.9	117.6
<u>Utah Lake</u>	Utah Lake	883.9	741.6	806.8	518.9
(1) - Observed flow corrected for change in storage and diversions.					



DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
NAME	Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
					Last Year	Average †
<u>UTAH LAKE</u>						
Dutchman R. S.	7560	1/31	42	12.7	18.7	- -
Beaver Creek R. S. x	7500	1/31	26	6.2	8.0	5.2b
Camp Altamont	7300	1/31	36	12.4	11.8	9.7
Clear Creek Ridge #1	9200	1/29	45	14.0	15.6	- -
Clear Creek Ridge #2	8000	1/29	39	11.2	11.7	7.9b
Clear Creek Ridge #3	6600	1/29	28	8.1	6.3	4.7b
Daniels-Strawberry Smt.	8000	1/30	38	10.4	13.0	8.9
East Portal	7560	1/30	30	7.0	10.8	6.1
Payson R. S.	8050	1/26	56	18.0	13.0	9.7b
Rock Bridge	6750	1/26	48	14.2	10.1	6.8b
Soapstone R. S.	7800	1/31	31	7.5	11.9	7.7b
South Fork R. S.	6100	1/31	27	7.6	1.8	4.7
Strawberry Divide	8000	1/30	44	13.1	18.1	10.6
Timpanogos Cave Camp	5500	1/31	14	5.1	0.1	1.8
Timpanogos Divide	8140	1/31	52	17.3	22.8	15.4
Trial Lake	9800	1/31	55	16.0	24.7	14.8b
Packard Canyon	6400	1/30	31	9.2	8.5	- -
Hobble Crk. Summit	7420	1/30	32	10.9	12.0	- -
<u>JORDAN RIVER</u>						
Lamb's Canyon #1	6600	1/30	38	9.7	16.3	8.6
Lamb's Canyon #2	7400	1/30	39	10.7	15.0	- -
Middle Canyon x	7000	2/1	52	16.5	11.2	6.8b
Mill D. South Fork	7400	1/31	44	14.2	20.0	11.3
Parley's Canyon Summit	7500	1/30	44	12.3	17.6	10.5
Silver Lake (Brighton)	8725	1/31	48	16.1	22.8	14.7
Snowbird(Gad Valley)	10000	2/6	60	18.0*	- -	- -
Vernon Creek	7500	2/2	38	11.3	- -	- -

x - Adjacent drainage  
 b - Average of all past record - less than 15 years  
 \* - Partly estimated

x - Adjacent drainage		
b - Average of all past record - less than 15 years		
* - Partly estimated		



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## PRECIPITATION (Inches)

DRAINAGE BASIN and PRECIPITATION GAGE LOCATION	ELEVATION	CURRENT INFORMATION			FROM APPROX. OCT. 1 TO DATE		
		Date of Reading	Month's Precipitation	Average †	This Year	Average †	Percent of Average
<u>UTAH LAKE</u>							
Clear Creek Ridge #2	8000	1/29	2.40	2.62b	13.65	8.97*	152
Daniels-Strawberry Smt.	7800	1/30	4.05	2.90b	16.37	10.95b	149
East Portal	7800	1/30	2.54	3.37	13.04	10.41*	125
Payson R. S.	8050	1/26	4.75	3.84b	18.95	10.01b	189
Soapstone R. S.	7800	1/31	1.40	2.71b	13.68	9.42*	145
Timpanogos Divide	8200	1/31	4.10	3.94	21.45	15.95	134
Trial Lake	9800	1/31	3.07	4.47b	18.91	12.89*	147
Dutchman R. S.	7560	1/31	3.70	- -	16.85	- -	- -
Hobble Creek Summit	7420	1/30	3.30	- -	16.85	- -	- -
<u>JORDAN RIVER &amp; TOOELE VALLEY</u>							
Lambs Canyon #2	7400	Gage Molested		- -	- -	- -	- -
Middle Canyon	7000	Gage Molested		3.32b	- -	9.55*	- -
Mt. Dell Dam	5500	1/31	1.45	2.02	8.58	7.50	114
Parley's Canyon Smt.	7500	1/30	2.96	3.94*	16.23	11.64*	139
Silver Lake (Brighton)	8725	1/31	2.40	5.09	21.12	16.56	128
Deseret Peak a	9250	1/31	6.82	- -	16.56	- -	- -
a - Data obtained by radio - USU-SCS cooperative sites							
b - Average of all past record - less than 15 years							
* - Partly estimated							

a - Data obtained by radio - USU-SCS cooperative sites

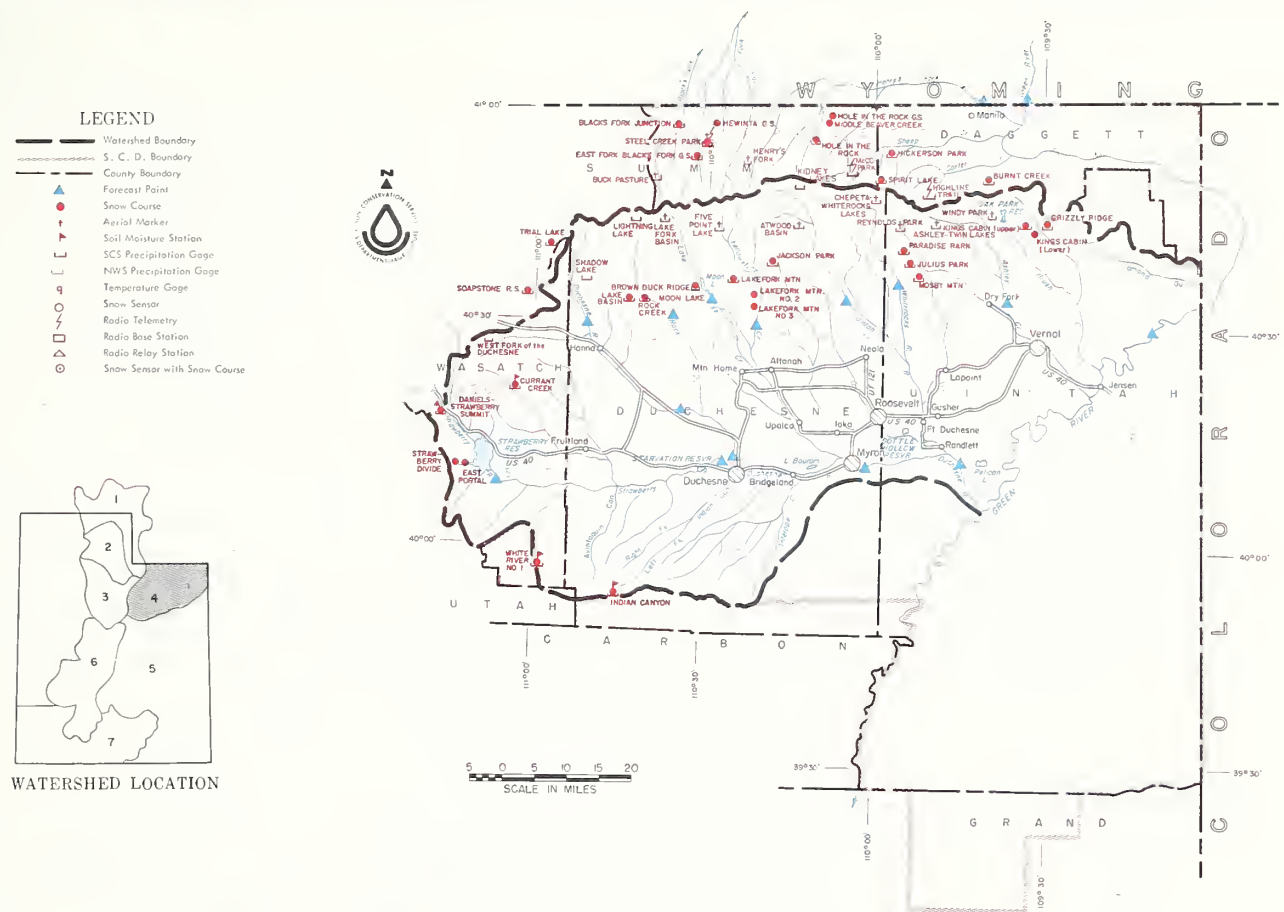
b - Average of all past record - less than 15 years

\* - Partly estimated

# WATER SUPPLY OUTLOOK

## UINTAH BASIN and DAGGETT SCD's in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE  
UTAH STATE DEPARTMENT OF NATURAL RESOURCES-DIVISION OF WATER RIGHTS



FEBRUARY 1, 1973

THE WATER SUPPLY OUTLOOK IS NEAR AVERAGE

SNOW COVER is 127% of the February 1 average but 21% less than last February.

PRECIPITATION for mountain stations varied from 63 to 147% of the January average but is still 123 to 181% for the Oct-Jan. period.

SOIL MOISTURE is above average.

RESERVOIR STORAGE is above average.

STREAMFLOW FORECASTS vary from 95% of the April-July average for the Inflow to Flaming Gorge to 153% of average for Strawberry at Duchesne assuming average precipitation and temperature from February 1 to July 31.

FEBRUARY 1, 1973

# STREAMFLOW FORECASTS

BASIN STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average †
<u>DUCHESNE RIVER</u>					
Duchesne nr Tabiona (1)	120	128	Apr-July		94
Duchesne at Duchesne (1)	211	126	Apr-July		167
Duchesne at Myton (1)	290	119	Apr-July		243
Duchesne at Randlett (1)	325	124	Apr-July		262
Strawberry at Duchesne	75	153	Apr-July		49
Rock Crk nr Mtn. Home	100	114	Apr-July		88
Lakefork below Moon Lake (1)	70	106	Apr-July		66
Yellowstone nr Altonah	65	110	Apr-July		59
Uinta nr Neola	90	113	Apr-July		79
Whiterocks nr Whiterock	54	106	Apr-July	46	51
<u>FLAMING GORGE TO DUCHESNE RIVER</u>					
Ashley Creek nr Vernal	52	118	Apr-July		44
Henry's Fork at Linwood	54	142	Apr-Sept		38
Flaming Gorge Inflow (1)	1035	98	Apr-July	1967	1054

## RESERVOIR STORAGE (Thousand Acre Feet) END OF MONTH

Basin or Stream	RESERVOIR	Usable Capacity	Usable Storage		
			This Year	Last Year	Average †
<u>Ashley Creek</u>	Steinaker	33.3	25.8	22.7	15.6b
<u>Green River</u>	Flaming Gorge	3749.0	2962.0	2632.0	1299.0b
<u>Lake Fork</u>	Moon Lake	35.8	16.2	16.0	14.2
<u>Strawberry</u>	Starvation	165.3	130.0	135.1	- -
<u>Uintah</u>	Bottle Hollow	11.3	11.0	8.7	- -
(1) - Observed flow corrected for change in storage and diversions					
b - Average for all past record - less than 15 years					

## SNOW

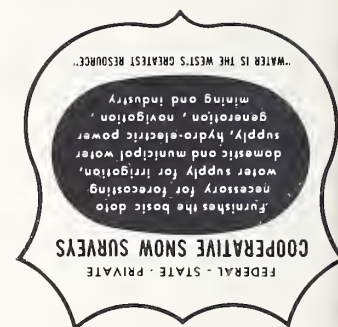
x - Adjacent drainage  
b - Average for all past record - less than 15 years



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## PRECIPITATION (Inches)

DRAINAGE BASIN and PRECIPITATION GAGE LOCATION	ELEVATION	CURRENT INFORMATION			FROM APPROX. OCT 1 TO DATE		
		Date of Reading	Month's Precipitation	Average <sup>†</sup>	This Year	Average <sup>†</sup>	Percent of Average
<b>DAGGETT SCD</b>							
Highline Trail	10250	1/31	2.81		- -		
Burnt Creek	7900	1/24	- -	- -	10.48	- -	- -
McCoy Park	10600	1/31			13.60		
<b>UINTAH BASIN SCD</b>							
Daniels-Strawberry Smt x	8000	1/30	4.05	2.90b	16.37	10.95b	149
East Portal Ridge x	7800	1/30	2.54	3.37	13.04	10.41*	125
Grizzly Ridge	8500	1/24	3.41	- -	13.30	- -	- -
Indian Canyon	9100	1/24	1.67	1.53b	13.63	9.21b	148
Julius Park	9800	1/26	1.74	1.76*	13.64	7.62*	179
Lakefork Mountain	10500	1/29	1.42	2.24b	12.59	6.94b	181
Moon Lake	8150	1/31	1.05	1.16	9.25	7.49	123
Mosby Mountain	9500	1/26	1.73	- -	11.77	- -	- -
Paradise Park	10100	1/26	1.96	1.92*	13.96	8.38*	166
Soapstone R. S.	7800	1/31	1.40	2.71b	13.68	9.42*	145
Trial Lake x	9800	1/31	3.07	4.47b	18.91	12.89*	147

x - Adjacent drainage

b - Average of all past record - less than 15 years

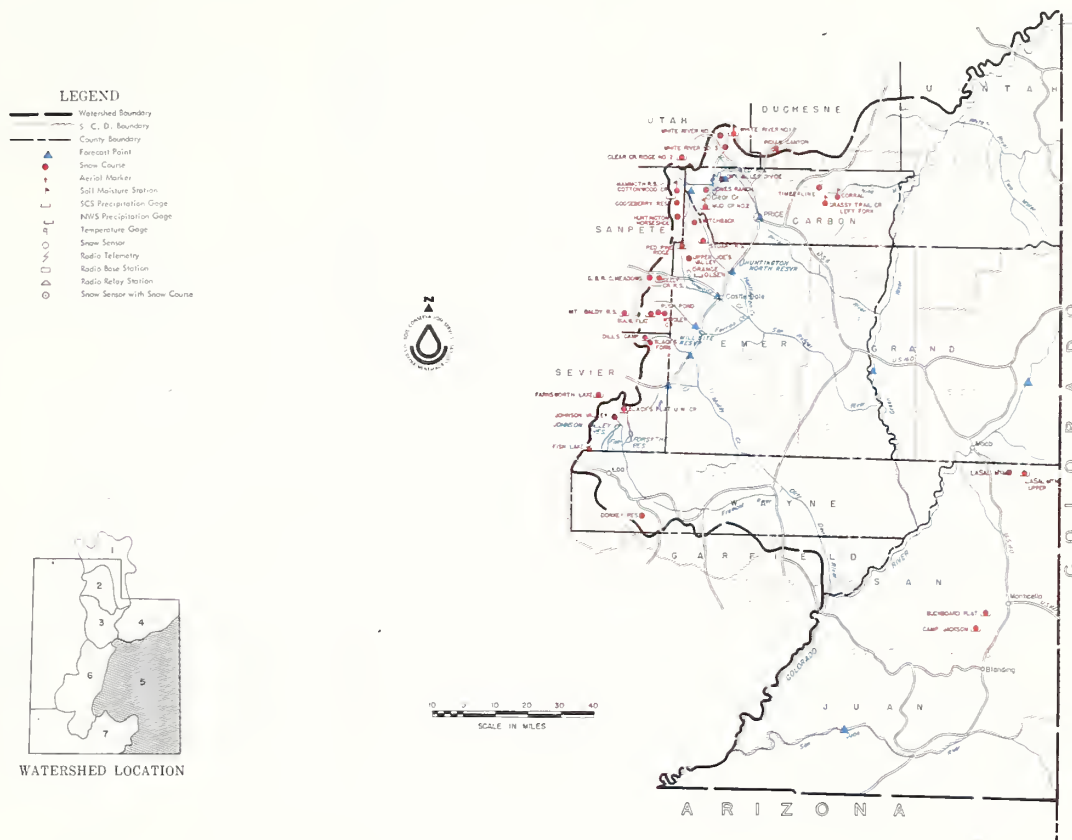
\* - Partly estimated



# WATER SUPPLY OUTLOOK

## CARBON, EMERY, WAYNE, GRAND and SAN JUAN COUNTIES in UTAH

**UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE  
UTAH STATE DEPARTMENT OF NATURAL RESOURCES-DIVISION OF WATER RIGHTS**



FEBRUARY 1, 1973

THE WATER SUPPLY OUTLOOK IS ABOVE AVERAGE

SNOW COVER is 137% of average on the Price Watershed and is 130% of average on San Rafael Watersheds. Both watersheds average about 10% less water content than last year at this time.

PRECIPITATION at mountain stations varied from 43 to 129% of average for January but the total for the October-January period varied 118 to 179% of average.

WATERSHED SOILS are well primed.

STREAMFLOW FORECASTS for the April-July period range from 108% (Green at Green River) to 156% (Price at Heiner). Forecasts assume average weather conditions for the remainder of the season.

RESERVOIR STORAGE is 110% of average in Scofield but totals about 27% less than last February 1 in Scofield and Joe's Valley together.

FEBRUARY 1, 1973

# STREAMFLOW FORECASTS

BASIN STREAM and or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average †
<u>PRICE RIVER</u>					
Gooseberry Crk nr Scofield	13.6	136	Apr-July	19.0	10.0
Price nr Heiner (1)	84	156	Apr-July		54
Scofield Reservoir Inflow (1)	45	140	Apr-July		32
<u>SAN RAFAEL RIVER</u>					
Cottonwood Crk nr Orangeville	54	123	Apr-July	33	44
Ferron Crk nr Ferron	42	128	Apr-July		33
Huntington Crk nr Huntington	54	129	Apr-July		42
<u>MUDDY RIVER</u>					
Muddy Creek nr Emery	20	123	Apr-July		16.2b
<u>UPPER COLORADO BASIN</u>					
Colorado nr Cisco, Utah	3660	131	Apr-July	1594	2802
Green at Green River, Utah	2785	108	Apr-July	2030	2574
Navajo Reservoir Inflow	850	137	Apr-July	259	619
San Juan nr Bluff, Utah	1260	142	Apr-July	276	890
<u>FREMONT RIVER</u>					
Seven Mile Crk. nr Fish Lake	8.0	129	Apr-July		6.2b

## RESERVOIR STORAGE (Thousand Acre Feet) END OF MONTH

Basin or Stream	RESERVOIR	Usable Capacity	Usable Storage		
			This Year	Last Year	Average †
<u>Price River</u>	Scofield	65.8	22.3	40.5	20.4
<u>San Rafael</u>	Huntington North	3.9	3.0	- -	- -
	Joe's Valley	54.6	35.4	38.5	- -
	Mill Site	16.7	3.7	- -	- -
<u>San Juan</u>	Navajo	1696.4	945.8	928.9	284.0b
(1) - Observed flow corrected for change in storage					
b - Average for all past record - less than 15 years					

# SNOW

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average †
<u>PRICE RIVER</u>						
Clear Creek Ridge #1	9200	1/29	45	14.0	15.6	- -
Clear Creek Ridge #2 x	8000	1/29	39	11.2	11.7	7.9b
Dry Valley Divide	7800	1/29	32	8.1	8.3	6.0
Gooseberry Reservoir	8700	1/30	46	15.6	13.9	10.2
Indian Canyon	9100	1/26	36	8.7	14.2	7.3
Jones Ranch	7600	1/29	22	5.1	4.9	3.9
Mammoth R. S. - Ctnwd. Crk	8800	1/30	47	15.4	15.7	11.0b
Mud Creek #2	8300	1/29	36	9.1	13.2	7.2*
White River #1	8550	1/31	36	9.4	- -	- -
White River #2	7600	1/31	27	6.1	- -	- -
White River #3	7400	1/31	27	6.9	- -	- -
<u>SAN RAFAEL RIVER</u>						
Buck Flat	9400	1/29	41	11.0	12.8	8.9b
G.B.R.C. Meadows x	10000	1/31	62	19.4	18.4	13.2b
Gooseberry Reservoir x	8700	1/30	46	15.6	13.9	10.2
Red Pine Ridge	9400	1/30	40	10.8	13.4	9.6b
Rush Pond	9800	1/29	38	9.7	11.1	8.2b
Upper Joe's Valley	8900	1/30	30	6.6	9.0	5.4b
Wrigley Creek	9000	1/29	31	7.4	9.4	6.4b
Orange Olsen	7300	1/30	17	3.0	5.0	- -
<u>FREMONT RIVER</u>						
Black Flat U.M. Crk	9250	1/29	34	9.2	- -	- -
Farnsworth Lake x	9900	1/29	56	17.1	14.6	9.4b
Johnson Valley	8850	1/29	27	6.8	- -	- -

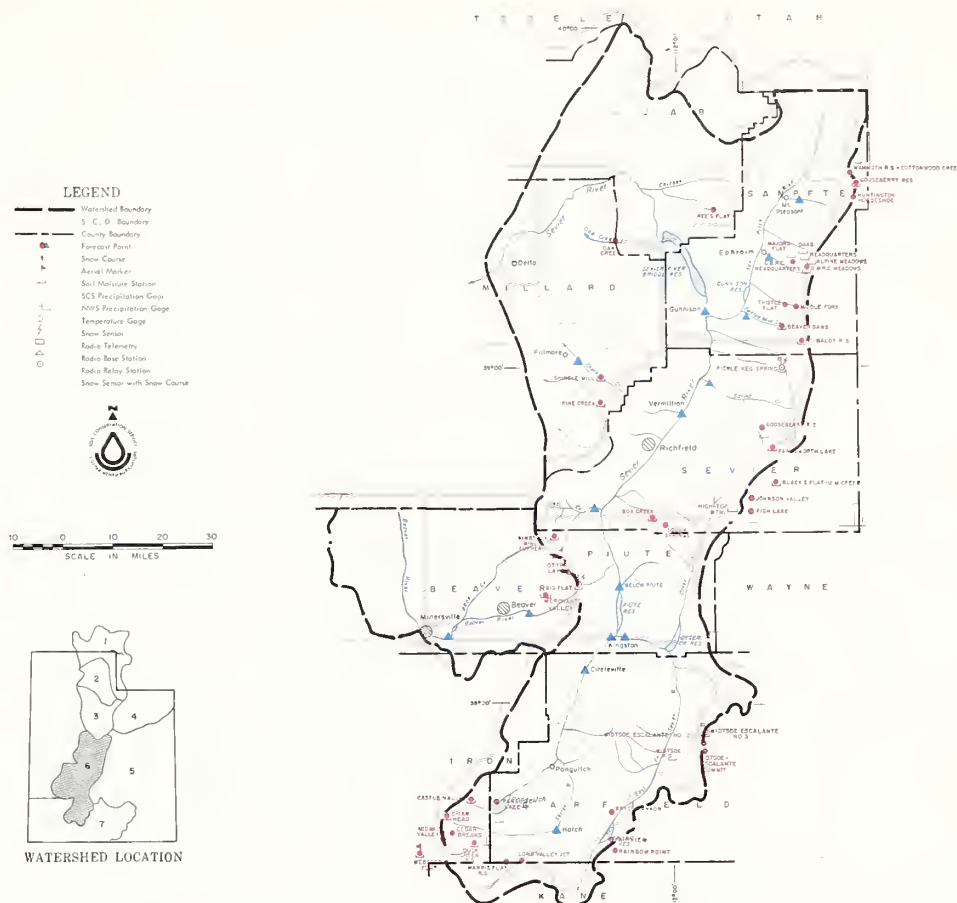
DRAINAGE BASIN and PRECIPITATION GAGE LOCATION	ELEVATION	CURRENT INFORMATION			FROM APPROX. OCT. 1 TO DATE		
		Date of Reading	Month's Precipitation	Average †	This Year	Average †	Percent of Average
<u>PRICE RIVER</u>							
Clear Creek Ridge #2 x	8000	1/29	2.40	2.62b	13.65	8.97*	152
Gooseberry Reservoir	8700	1/30	4.00	3.39b	16.60	10.44*	159
Indian Canyon	9100	1/24	1.67	1.53b	13.63	9.21b	148
Mammoth R. S. #2	8600	1/30	3.80	3.05b	16.70	11.35*	147
Mud Creek	8300	1/29	1.57	2.42*	13.46	8.89*	151
<u>SAN RAFAEL RIVER</u>							
Buck Flat	9400	1/29	2.10	3.41b	14.25	9.05*	157
G.B.R.C. Meadows x	10000	1/31	- -	4.37	14.20	12.04	118
Gooseberry Reservoir x	8700	1/30	4.00	3.39b	16.60	10.44*	159
Orange Olsen	7300	1/30	1.35	- -	7.90	- -	- -
Red Pine Ridge	9400	1/30	2.00	4.65b	16.20	10.50*	154
<u>FREMONT RIVER</u>							
Farnsworth Lake x	9900	1/29	4.85	3.75b	17.49	9.77b	179
x - Adjacent drainage b - Average for all past record - less than 15 years * - Partly estimated							



# WATER SUPPLY OUTLOOK

## SEVIER RIVER BASIN including BEAVER RIVER in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE  
UTAH STATE DEPARTMENT OF NATURAL RESOURCES-DIVISION OF WATER RIGHTS



FEBRUARY 1, 1973

THE WATER SUPPLY OUTLOOK IS ABOVE AVERAGE

SNOW COVER varies from 140 to almost 300% of the February 1 average with low elevation areas much heavier than usual.

PRECIPITATION at mountain stations varied from 76 to 152% of the January average. The total for the October-January period ranged from average to better than twice average.

SOIL MOISTURE is above average.

RESERVOIR STORAGE on the Sevier is 153% of the February 1 average but 27% less than last February 1. Minersville Reservoir is 99% of average and 62% of last year.

STREAMFLOW FORECASTS for the April-July period range from 117% for Minersville Reservoir Inflow to better than twice average for East Fork Sevier and Salina Creek. Primary water forecasts range from 100%(Panguitch Valley) to 48%(Sevier Valley) for the April-September period. All forecasts assume average precipitation and temperature for the remainder of the season.



FEBRUARY 1, 1973

# STREAMFLOW FORECASTS

STREAMFLOW FORECASTS	THIS YEAR			PAST RECORD	
BASIN STREAM AND FORECAST POINT	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average †
<u>SEVIER RIVER</u>					
Chalk Creek nr Fillmore	22	167	Apr-July		13.2
Clear Crk nr Sevier (above Div.)	18.0	144	Apr-July		12.5b
East Fork Sevier nr Kingston (1)	30	256	Apr-July		11.7
Antimony Crk nr Antimony	9.8	166	Apr-July		7.8b
Inflow					
Kingston to Vermillion Dam	45	150	Apr-June		30 b
Vermillion Dam to Gunnison	55	122	Mar-June		45 b
Salina Crk at Salina (1)	12.8	216	Apr-June		5.9*
Sevier nr Circleville	42	156	Apr-June		27
Sevier nr Gunnison	49	159	Apr-June		31 b
Sevier at Hatch	52	157	Apr-July		33
Sevier nr Kingston	26	169	Apr-July		15.4
Sevier below Piute Dam (1)	52	179	Apr-July		29
<u>SAN PITCH RIVER</u>					
Ephraim Creek nr Ephraim	20	144	Apr-July		13.9b
Pleasant Crk nr Mt. Pleasant	11.8	151	Apr-July		7.8b
<u>BEAVER RIVER</u>					
Beaver nr Beaver	24	127	Apr-July	6.4	18.9
Minersville Reservoir Inflow (1)	5.5	117	Apr-June		4.7

## FORECAST DATE of LOW FLOW VALUES

FORECAST POINT	Low Flow Value Second Ft.	Forecast Date Stream Will Recede to Low Flow Value	Average Date of Low Flow Value
Clear Creek nr Sevier (above Div.)	5	July 25	July 19
Salina Creek at Salina	25	June 13	June 10
Sevier at Circleville(Circle Valley)	90	July 2	June 24
Sevier at Hatch (upper)	100	July 20	July 10

## PRIMARY WATER RIGHT FORECASTS (PERCENT OF WATER RIGHT DELIVERED)

RIVER SECTION	Percent Forecast For This Year	Average Percent Delivered During 15 year Period †	Forecast Period
<u>Sevier River</u>			
Below Vermillion Dam	63	58	Apr-Sept
Circle Valley	80	66	Apr-Sept
Panguitch Valley	100	84	Apr-Sept
Sevier Valley	48	40	Apr-Sept

## OTHER SPECIAL FORECASTS

Below Vermillion - Flow above 360 second feet should total about 3500 - 4000 acre feet this season

Inflow to Sevier Bridge Reservoir from October 1 to March 31 is expected to be 70,000 to 80,000 acre feet.

## SEVIER RIVER BASIN INCLUDING BEAVER RIVER

## SNOW

DRAINAGE BASIN and or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
					Last Year	Average †
NAME	Elevation					
<u>UPPER SEVIER RIVER</u> (South of Richfield, Utah)						
Box Creek	9800	1/30	38	10.2	- -	- -
Fish Lake	8700	1/29	32	9.0	- -	- -
Big Flat x	10290	1/26	52	14.4	12.1	9.6b
Bryce Canyon	8000	1/29	27	7.4	3.4	2.6
Duck Creek R. S.	8700	1/29	43	11.8	12.4	7.6b
Farview	8200	1/29	36	10.6	7.1	- -
Harris Flat R. S.	7700	1/29	35	9.2	4.3	4.7b
Kimberly Mine	9300	1/27	58	15.0	11.0	8.7b
Long Valley Jct. x	7500	1/29	31	8.4	0.4	2.2b
Midway Valley	9800	1/30	56	18.2	20.4	12.2b
Rainbow Point	9100	1/29	38	8.6	- -	- -
Widtsoe-Escalante Smt.	9500	1/24	28	7.6	6.7	4.0
Widtsoe-Escalante #2	9500	1/24	35	10.6	9.0	5.2
Widtsoe-Escalante #3	9500	1/24	42	11.8	11.4	6.0b
Squaw Springs	9300	1/30	27	6.4	- -	- -
<u>LOWER SEVIER RIVER</u> (Including San Pitch River)						
Oak Creek	7760	2/1	44	12.2	- -	- -
Farnsworth Lake	9900	1/29	56	17.1	14.6	9.4b
G.B.R.C. Headquarters	8700	1/31	49	15.0	10.2	8.3b
G.B.R.C. Meadows	10000	1/31	62	19.4	18.4	13.2b
Gooseberry R. S.	8400	1/29	44	11.8	8.4	6.2b
Gooseberry Reservoir x	8700	1/30	46	15.6	13.9	10.2
Mammoth R. S. - Ctnwood Crk	8800	1/30	47	15.4	15.7	11.0b
Pickle Keg Springs	9600	Not Measured				
Shingle Mill	6200	1/26	47	13.2	7.1	3.9b
Pine Creek	8700	1/26	61	18.9	- -	- -
<u>BEAVER RIVER</u>						
Beaver R. T.	6020	1/31	12	3.3	28.1	22.0
Big Flat	10290	1/26	52	14.4	12.1	9.6b
Merchant Valley	8200	1/26	30	7.6	5.6	4.9
Otter Lake	9300	1/26	44	11.7	10.4	7.5b

## RESERVOIR STORAGE (Thousand Acre Feet) END OF MONTH

Basin or Stream	RESERVOIR	Usable Capacity	Usable Storage		
			This Year	Last Year	Average †
<u>Sevier River</u>	Gunnison	18.2	15.0*	14.8	- -
	Otter Creek	52.5	24.9	29.0	19.0
	Piute	71.8	38.6	53.0	29.6
	Sevier Bridge	236.0	111.9	156.7	66.2
<u>Beaver River</u>	Minersville(Rky Fd)	23.3	8.8	14.3b	8.9

(1) - Observed flow corrected for change in storage and diversions

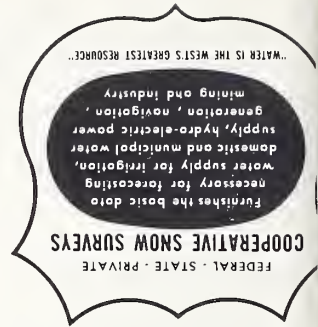
b - Average of all past record - less than 15 years

\* - Partly estimated

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## PRECIPITATION (Inches)

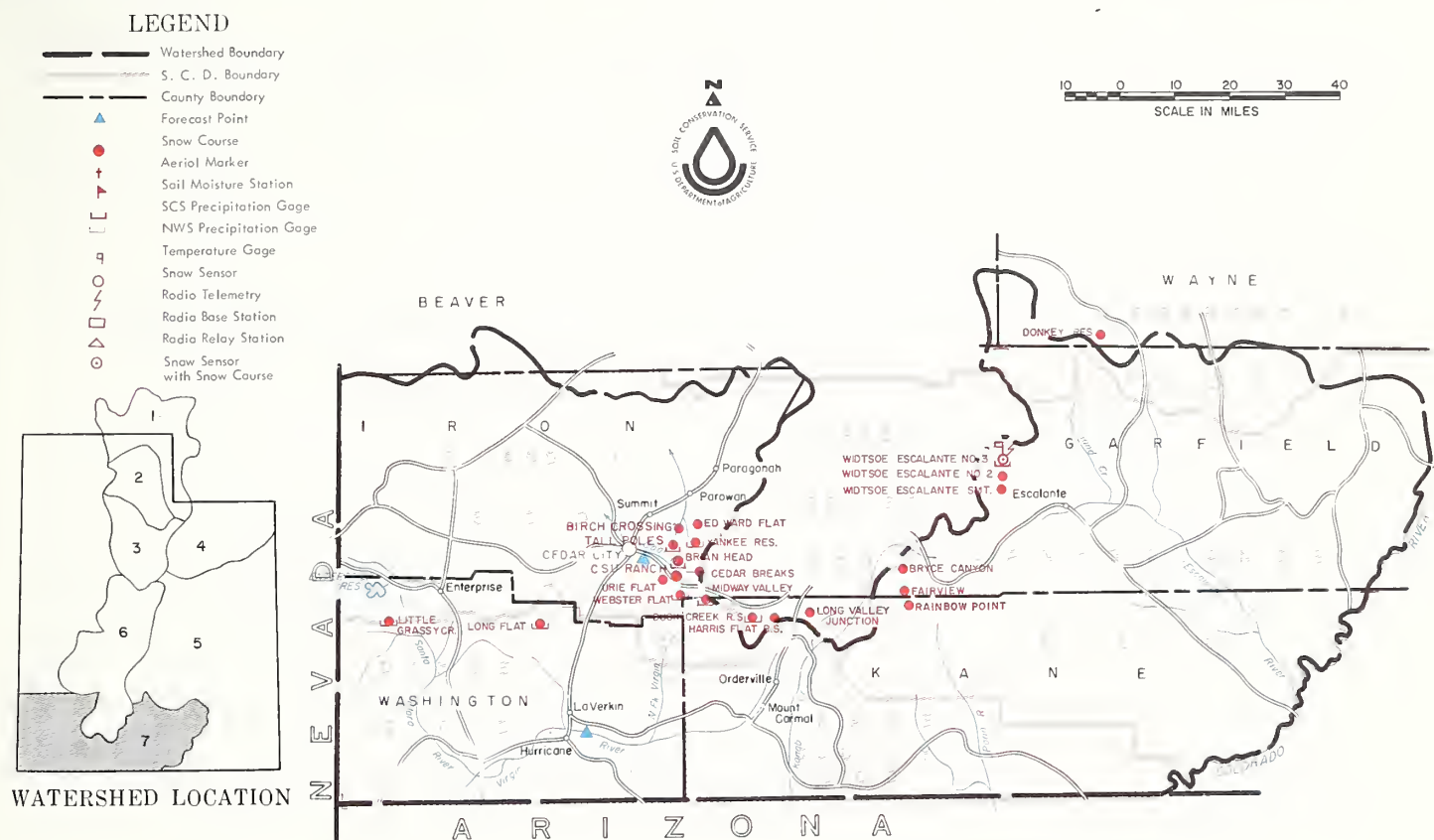
DRAINAGE BASIN and PRECIPITATION GAGE LOCATION	ELEVATION	CURRENT INFORMATION			FROM APPROX OCT 1 TO DATE		
		Date of Reading	Month's Precipitation	Average †	This Year	Average †	Percent of Average
<u>SEVIER RIVER</u>							
Big Flat x	10290	1/26	3.75	3.63b	15.19	8.23*	185
Duck Creek R. S.	8560	1/29	3.88	3.27b	19.31	10.18*	190
Farnsworth Lake	9900	1/29	4.85	3.75b	17.49	9.77b	179
G.B.R.C. Headquarters	8700	1/31	3.00	3.66	12.15	10.11	101
G.B.R.C. Meadows	10000	1/31	- -	4.37	14.20	12.04	118
G.B.R.C. Oaks	7655	1/31	2.05	2.61	12.30	6.91	178
Gooseberry R. S.	7800	1/29	3.85	2.87b	13.41	6.69*	200
Gooseberry Reservoir x	8700	1/30	4.00	3.39b	16.60	10.44*	159
Kimberly Mine	9100	1/27	4.92	3.24*	18.57	9.84*	189
Mammoth R. S. #2 x	8600	1/30	3.80	3.05b	16.70	11.35*	147
Shingle Mill	6200	1/26	3.05	2.98*	17.41	7.60*	229
Webster Flat x	9200	1/30	5.05	3.53*	15.48	11.29*	137
Widtsoe-Escalante #3	9500	1/24	1.92	2.30b	15.68	7.65b	205
Widtsoe R. S.	7600	1/24	0.47	0.68	6.11	3.10	197
Pine Creek		1/26	- -		- -		- -
<u>BEAVER RIVER</u>							
Beaver Canyon P. H.	7275	Delayed	Data	- -		- -	- -
Merchant Valley	8650	1/26	3.38	- -	13.32	- -	- -



# WATER SUPPLY OUTLOOK

## EAST GARFIELD, KANE, WASHINGTON and IRON COUNTIES in UTAH

**UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE  
UTAH STATE DEPARTMENT OF NATURAL RESOURCES-DIVISION OF WATER RIGHTS**



FEBRUARY 1, 1973

THE WATER SUPPLY OUTLOOK IS ABOVE AVERAGE

SNOW COVER is 150 to better than 300% of the February 1 average. Low elevation snow is much heavier than usual.

PRECIPITATION at mountain stations ranged from 83 to 143% of average for January. The October-January total ranged from 137 to 205% of average.

SOIL MOISTURE is above average.

RESERVOIR STORAGE in Lake Powell is 49% of useable capacity and down about 5% from last February 1.

STREAMFLOW FORECASTS vary from 124% of the April-July average for Lake Powell Inflow to 212% of the April-June average for Santa Clara River at Pine Valley. Virgin River is 171% and Coal Creek 175%. These forecasts assume average weather conditions for the remainder of the season.



FEBRUARY 1, 1973

# STREAMFLOW FORECASTS

BASIN STREAM and or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average †
<u>VIRGIN RIVER</u>					
Virgin nr Virgin	65	171	Apr-June		38
Santa Clare nr Pine valley	7.0	212	Apr-June		3.3b
<u>COAL CREEK</u>					
Coal Crk nr Cedar City	24	175	Apr-July		13.8
<u>UPPER COLORADO</u>					
Lake Powell Inflow	8065	124	Apr-July	5578	6527

WSFB-X2-L

## RESERVOIR STORAGE (Thousand Acre Feet) END OF MONTH

Basin or Stream	RESERVOIR	Usable Capacity	Usable Storage		
			This Year	Last Year	Average †
<u>Colorado</u>	Lake Powell	25002.0	12253.0	12943.0	5161.7b
(b) - Average for all past record - less than 15 years					

## EAST GARFIELD, KANE, WASHINGTON &amp; IRON CO.

## SNOW

SNOW		THIS YEAR			PAST RECORD	
DRAINAGE BASIN and/or SNOW COURSE		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average †
<u>ESCALANTE RIVER</u>						
Widtsoe-Escalante Smt.	9500	1/24	28	7.6	6.7	4.0
Widtsoe-Escalante #2	9500	1/24	35	10.6	9.0	5.2
Widtsoe-Escalante #3	9500	1/24	42	11.8	11.4	6.0b
<u>PARIA RIVER</u>						
Bryce Canyon x	8000	1/29	27	7.4	3.4	2.6
<u>VIRGIN RIVER &amp; COAL CREEK</u>						
CSU Ranch	8200	1/30	30	8.3	6.8	- -
Duck Creek R. S. x	8700	1/29	43	11.8	12.4	7.6b
Harris Flat x	7700	1/29	35	9.2	4.3	4.7b
Long Valley Junction	7500	1/29	31	8.4	0.4	2.2b
Midway Valley x	9800	1/30	56	18.2	20.4	12.2b
Urie Flat	8450	1/30	27	8.7	7.4	4.1b
Webster Flat	9200	1/30	46	14.6	14.8	8.9
<u>PAROWAN CREEK</u>						
Birch Crossing	8100	1/29	28	6.5	5.5	- -
Brian Head	10000	1/29	53	16.1	18.5	- -
Tall Poles	8800	1/29	46	11.7	12.8	- -
<u>ENTERPRISE TO NEW HARMONY DRAINAGE</u>						
Little Grassy Creek	6100	2/1	31	9.1	- -	- -
Long Flat	8000	1/31	34	10.1	- -	- -



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## PRECIPITATION (Inches)

DRAINAGE BASIN and PRECIPITATION GAGE LOCATION	ELEVATION	CURRENT INFORMATION			FROM APPROX. OCT. 1 TO DATE		
		Date of Reading	Month's Precipitation	Average †	This Year	Average †	Percent of Average
<u>ESCALANTE RIVER</u>							
Widtsoe-Escalante #3	9500	1/24	1.92	2.30b	15.68	7.65b	205
<u>VIRGIN RIVER</u>							
Duck Creek R. S.	8560	1/29	3.88	3.27b	19.31	10.18*	190
Webster Flat	9200	1/30	5.05	3.53*	15.48	11.29*	137
<u>COAL CREEK</u>							
Webster Flat x	9200	1/30	5.05	3.53*	15.48	11.29*	137
<u>PAROWAN CREEK</u>							
Tall Poles	8800	1/29	2.40	- -	15.50	- -	- -

# Agencies Cooperating in Utah Snow Surveys

## U.S. GOVERNMENT AGENCIES

U.S. Department of Agriculture  
Soil Conservation Service  
Forest Service  
U.S. Department of Commerce  
NOAA, National Weather Service  
U.S. Department of Interior  
Bureau of Reclamation  
Geological Survey  
National Park Service

## STATE AGENCIES

Utah State University  
Utah Fish and Game Department  
Utah State Department of Natural  
Resources, Division of Water Rights  
Bear River Commissioner  
Price River Commissioner  
Provo River Commissioner  
Sevier River Commissioners  
Spanish Fork River Commissioner  
Utah Lake and Jordan River Commissioner

## MUNICIPALITIES

Manti  
Salt Lake City

## ORGANIZED PUBLIC AGENCIES

Beaver River Water Users Association  
Board of Canal Presidents - Jordan River  
Emery Canal and Reservoir Company  
Moon Lake Water Users Association  
Ogden River Water Users Association  
Provo River Water Users Association  
Strawberry Water Users Association  
Sevier River Water Users Association

## PRIVATE AGENCIES

Kaiser Steel Corporation



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